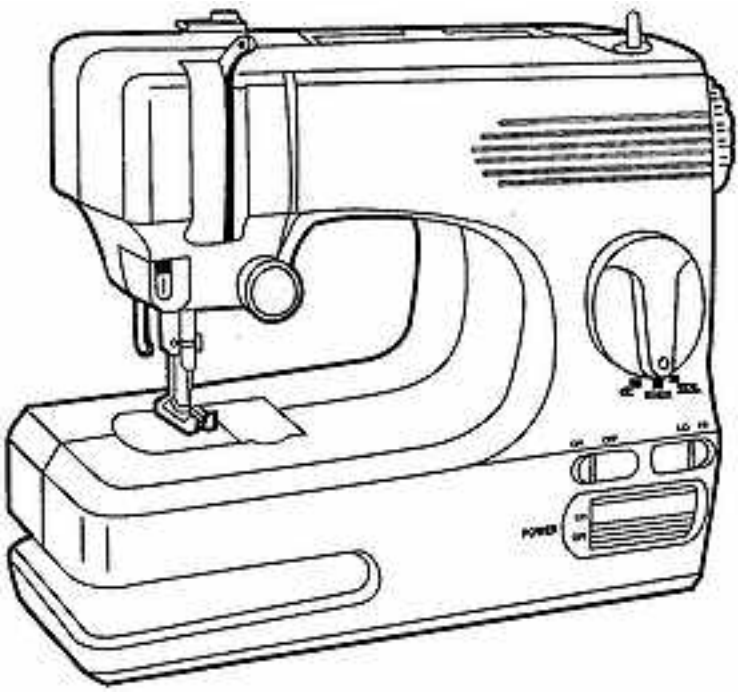
SINGER **TT700**

TINYTAILOR™

Mending Machine



# TT700 Instruction Manual

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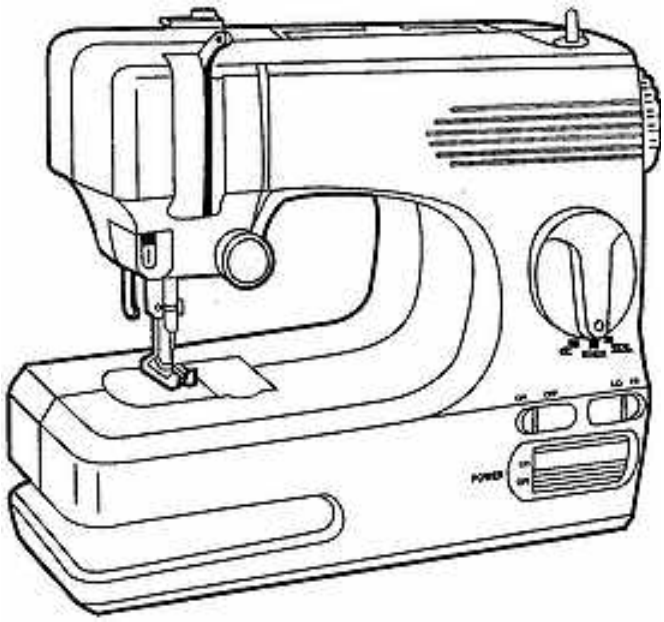

Even if you have sewn before, these instructions will make your first use much easier!

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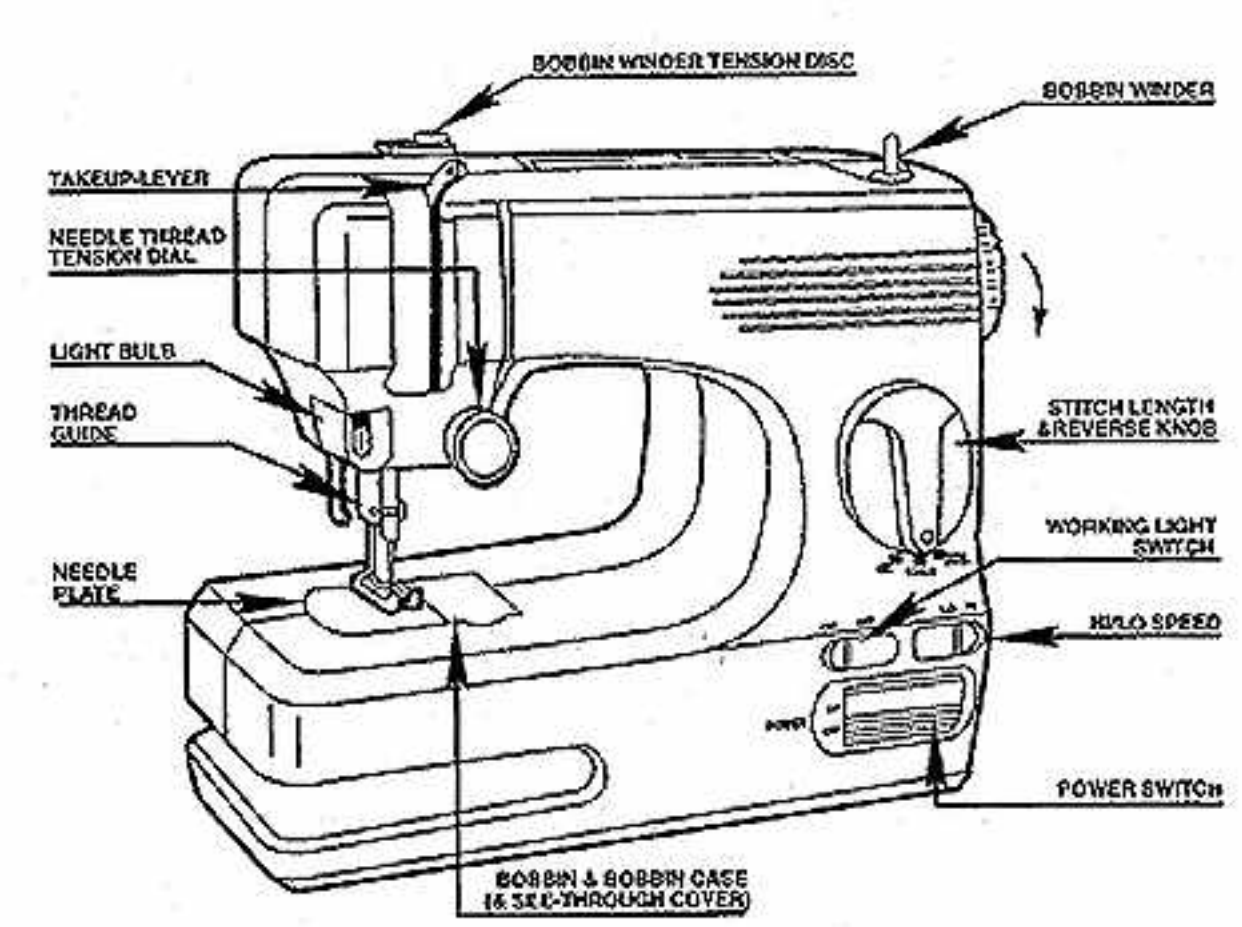
## PARTS AND ACCESSORIES



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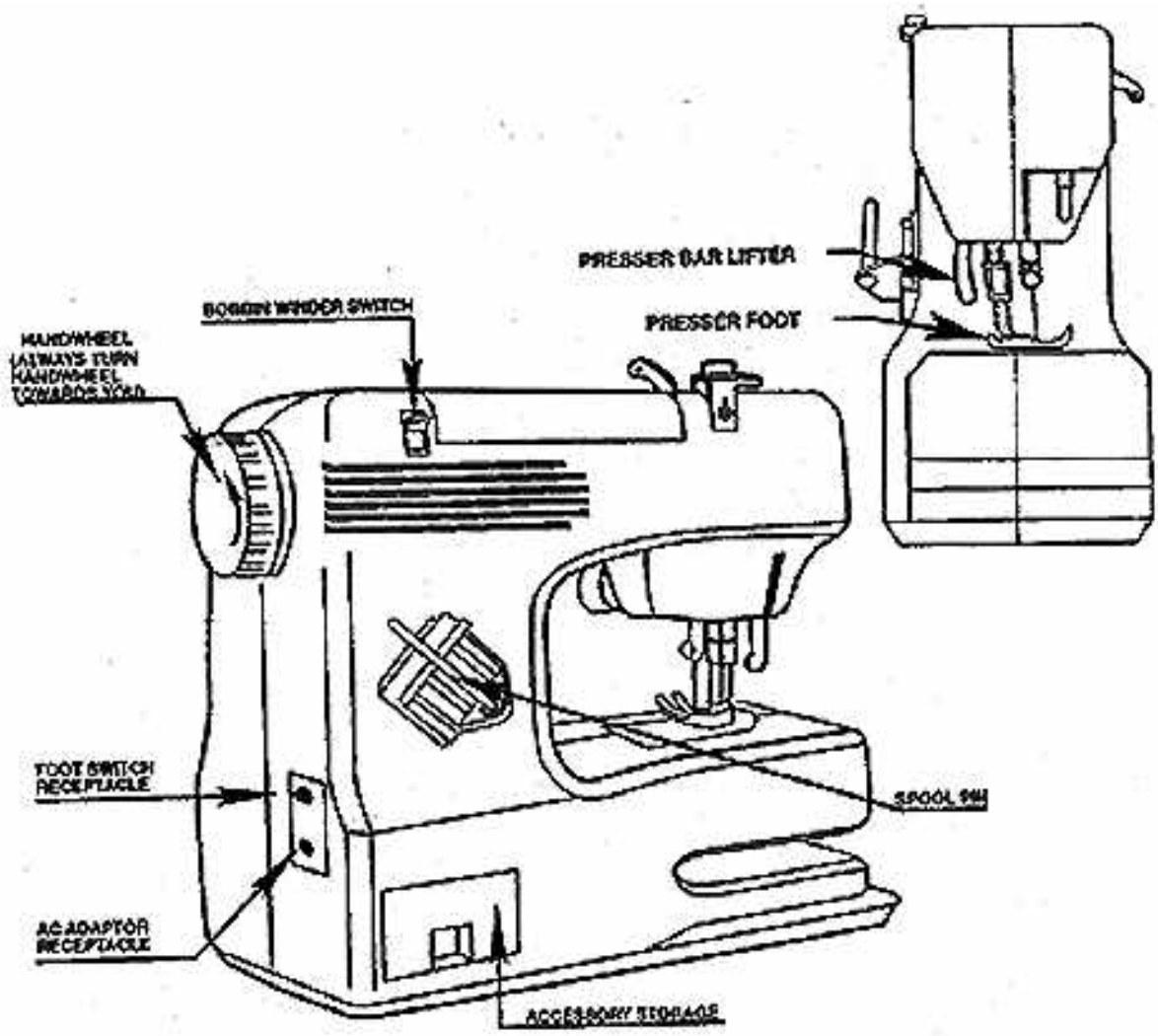
## PARTS AND ACCESSORIES



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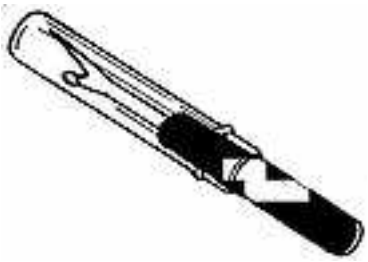
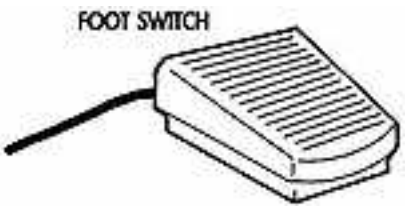
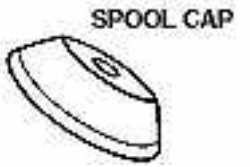
## ACCESSORIES INCLUDED

in Accessory Drawer

- 3 Bobbins (1 in machine)
  For replacement bobbins,
  use Class 66 bobbins
- 1 needle threader
- 2 needles (1 in machine)
  For replacement needles,
  Use Size 90/14 needles.
- Combination seam ripper/thread trimmer tool







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## IMPORTANT SAFEGUARDS

- Before connecting machine, be sure that the voltage on the AC adapter matches your electrical supply.
- Always disconnect the foot switch or AC adapter when changing needles, removing the bobbin, or cleaning the machine.
- Always disconnect the AC adapter whenever machine is unattended.
- Work carefully and watch the sewing area to avoid the needle during operation.
- Do not pull the fabric while mending as the needle may bend and break or cause other damage
- Check that the machine is threaded carefully before mending.
- The bobbin case tension is Pre-set at the factory and cannot be adjusted.
- If the thread gathers underneath the material, this indicates that the tension needs to be increased e.g., for cotton material the tension should be tightened as far as it will go then turned anti-clockwise 2 and a half turns.
- Please avoid sideways pressure on the needle when sewing around corners as this could cause the machine to jam and render it inoperative.

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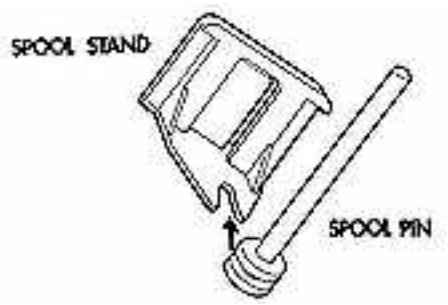
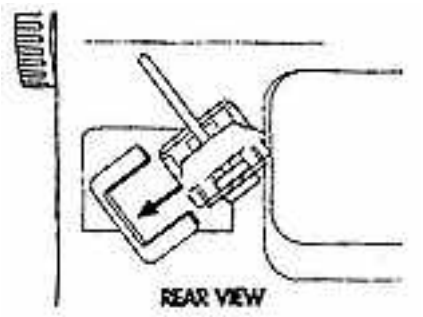
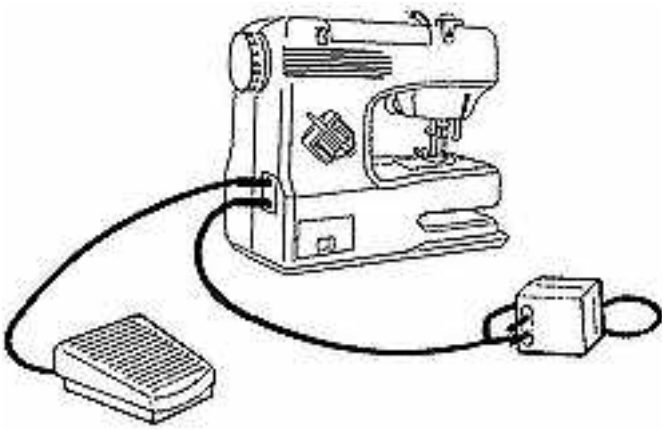
## GETTING READY TO MEND

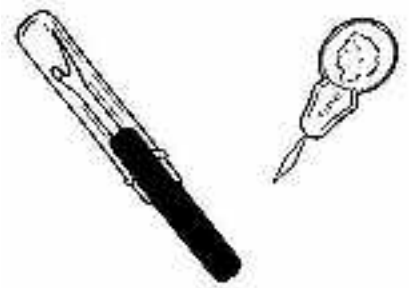
1. Assemble spool holder by snapping spool pin into spool stand.

2. Slide spool stand into its holder on rear left of machine, until it snaps firmly into place. Then install spool cap on spool pin





3. Make sure that power switch is in the **ON** position. Plug in foot switch and AC adapter plugs.

4. Remove red-handled seam ripper/thread trimmer and needle threader from accessory drawer.

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## WINDING THE BOBBIN

1. Push bobbin winder switch down to raise bobbin winder.

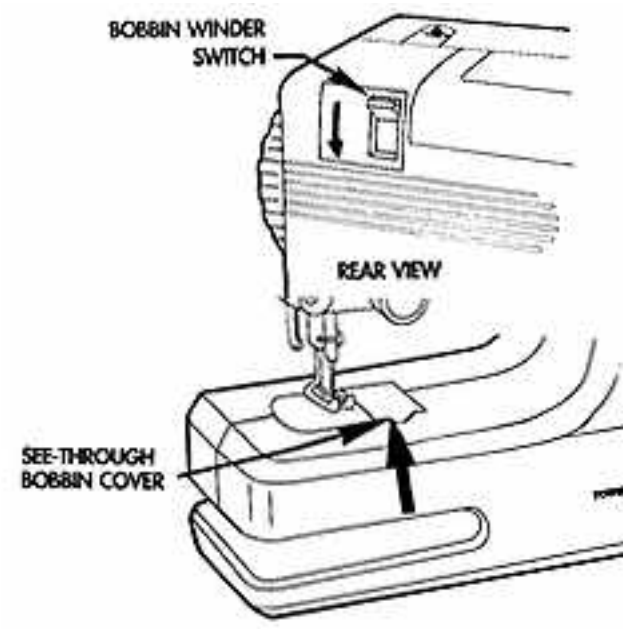
2. Remove see-through bobbin cover by pulling it upwards.

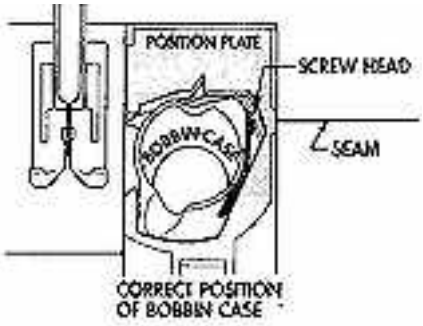
   Check that bobbin case is in proper position. The bobbin case is held in place by a position plate which is designed to flex slightly to allow the bobbin case to move back and forth freely, about 1/16"

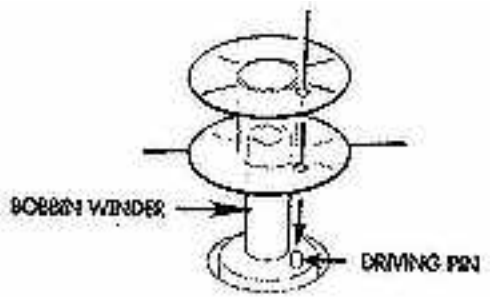
   Screw head should line up with seam in plastic casing of machine and bobbin case should move back and forth slightly (about 1/16") when handwheel is turned. If not, refer to page 17 for repositioning instructions.

3. Remove empty bobbin from bobbin case. The seam ripper may make removal easier.

   Place bobbin on bobbin winder, aligning hole in bobbin with driving pin on bobbin winder. You may have to turn the handwheel to help locate the driving pin.

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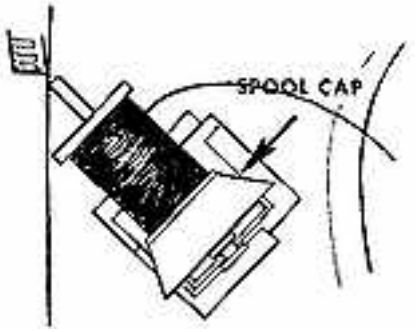
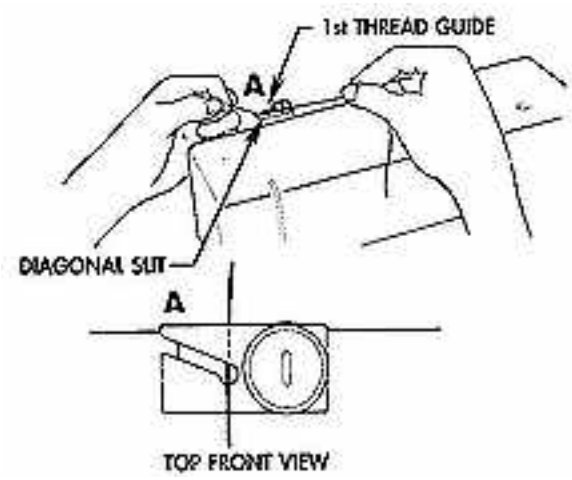
**WINDING THE BOBBIN continued...**

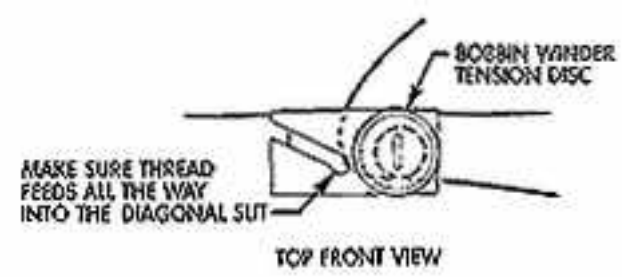
4. Install spool cap on spool pin.
   Slide spool of thread onto spool pin.
5. Pull thread from spool and, using two hands, pull it through diagonal slit in first thread guide.

   First thread guide should look like this when properly threaded.

6. Wrap thread one time counterclockwise around tension disc.



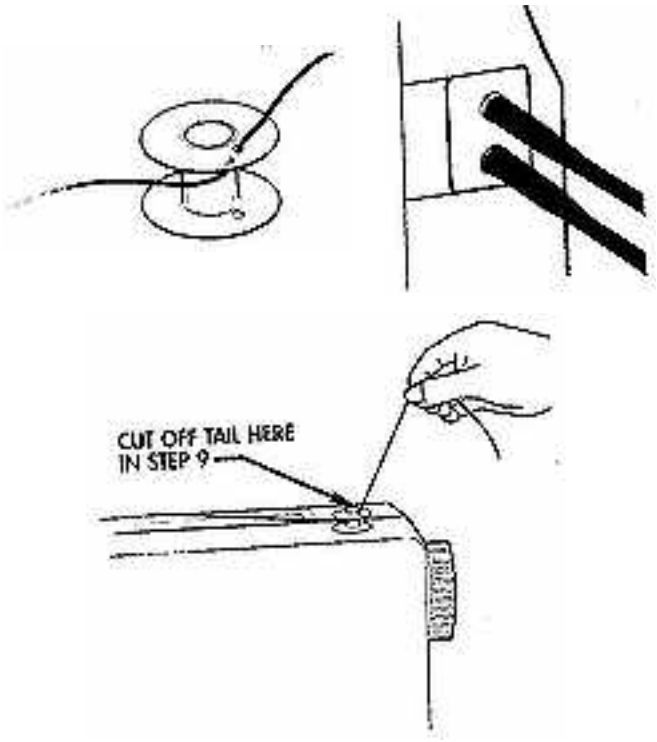
**WINDING THE BOBBIN continued...**

7. Feed end of thread through small hole in top of bobbin from the inside, leaving a 3" tail.

8. Slide power switch into ON Position  Hold end of thread (the "tail") firmly and step on foot switch until a few coils are wound onto bobbin and stop.

9.  Use thread trimmer to cut off tail, flush with top of bobbin. Continue winding until desired amount of thread is wound on bobbin. A full bobbin holds 35 yards.

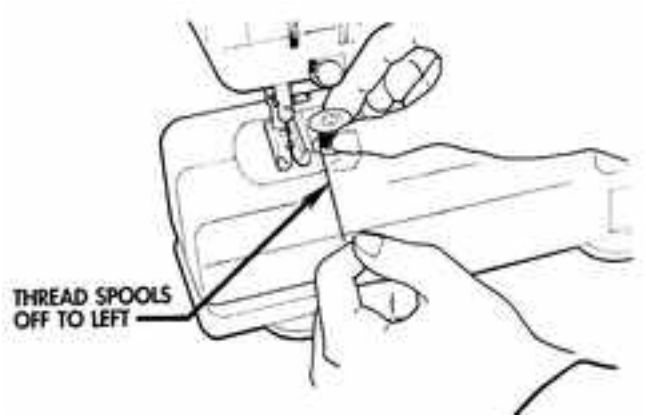
10. Cut thread about 4" from bobbin and remove from machine. Leave spool of thread on spool pin on back of machine. Push bobbin winder switch up into off position.

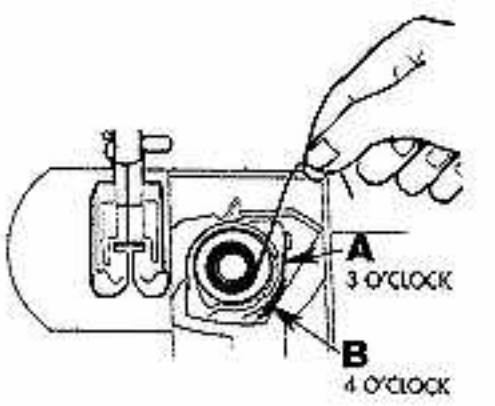


## INSERTING THE WOUND BOBBIN

1. Insert wound bobbin into bobbin case with thread spooling off to **left** side, as shown.

2. Guide end of thread to the back of the bobbin.

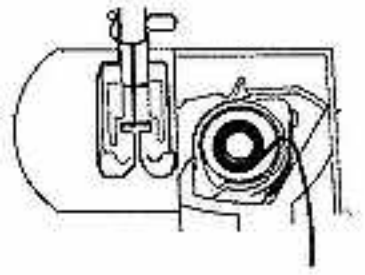


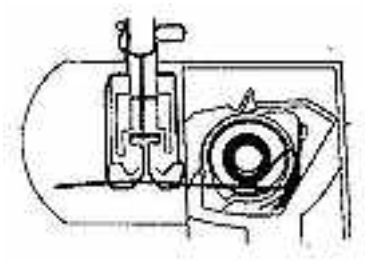




3. Pull the thread toward you so that it hooks on notch **A** (at 3 o'clock position) and then pull to the left so that it passes through notch **B** (at 4 o'clock position).

4. Leave several inches of thread laying across top of bobbin toward the left of machine. Slide cover back into position ready for sewing.

   Caution: If lower thread is not fixed properly, the thread will be very loose after sewing.





**Bobbin threading is now complete.**
(See **Page 9** to raise lower thread for sewing)

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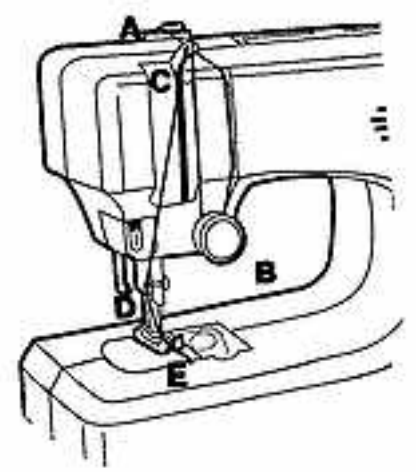
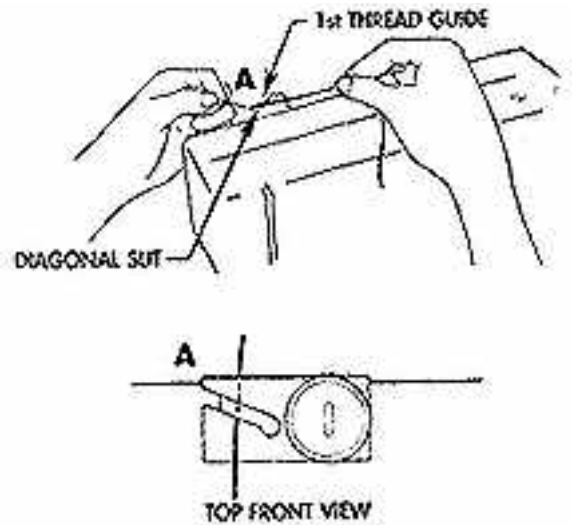
## THREADING THE MACHINE

There are five thread guides that the top (needle) thread passes through. The diagram at right shows an overview of the threading procedure; refer to the specific instructions below for important details.

Your spool of thread should be in the same position as it was for winding the bobbin, on the spool pin on the back of the machine. Cut the thread near the spool and pull the tail out of the thread guide and tension disc.

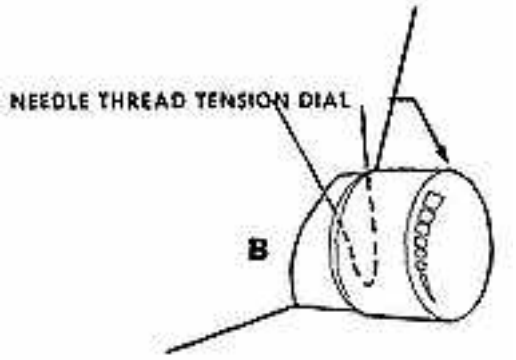



1. Pull thread from spool and, using two hands, pull it through diagonal slit in thread guide **A**. **Do not** wrap thread around tension disc for sewing.

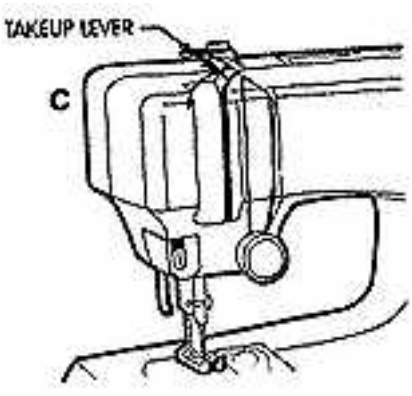
   Thread guide **A** should look like this when properly threaded.

2. Guide thread around tension dial **B** and Pull thread between the tension discs.



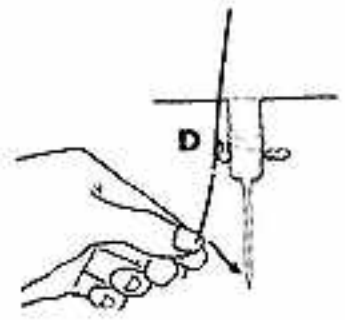
**THREADING THE MACHINE continued...**

3. Turn handwheel toward you until take-up lever is in highest position. Pass thread through hole in take-up lever **C** from right to left.




4. Turn handwheel toward you so that needle lowers and thread guide **D** is accessible.

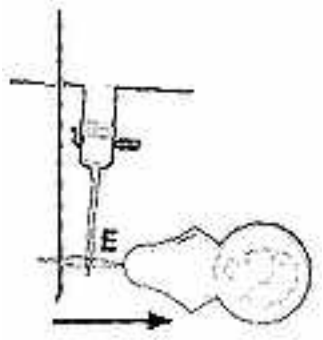
   Place thread behind thread guide **D** to the right side, and pull forward. The thread guide will thread itself.




5. Turn handwheel toward you again to raise needle to its highest position.

   Feed wire needle threader through needle eye from right to left.

   Insert thread through wire loop and pull needle threader back to the right.
   **The needle is now threaded.**




WORKING LIGHT
Slide to "ON" Position for brighter area to sew.

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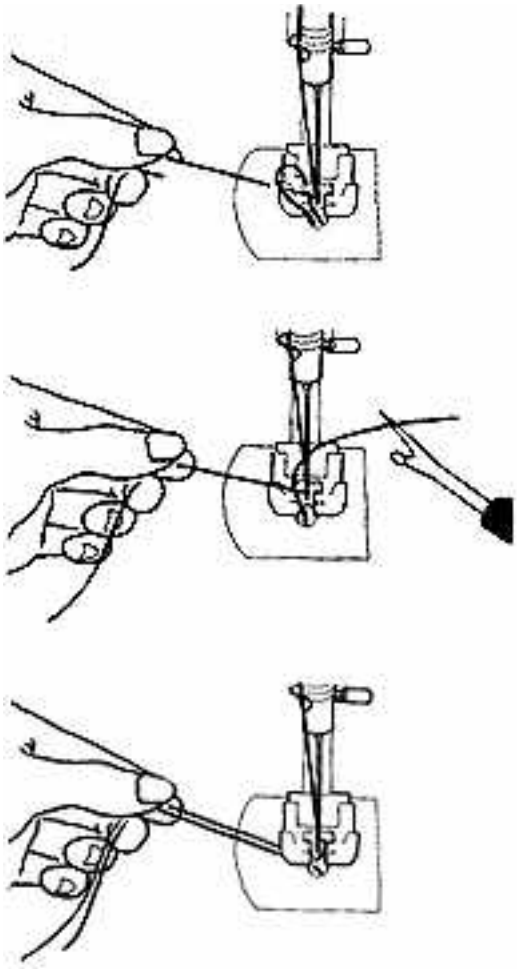
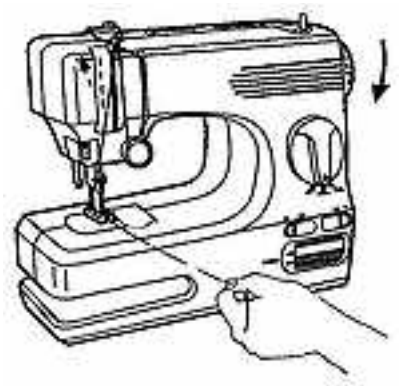
## RAISING THE BOBBIN THREAD

1. Hold top (needle) thread and turn hand-wheel toward you until needle goes to its lowest and then its highest point.

Raise the presser foot using the presser bar lifter.





2. Gently pull top (needle) thread until lower (bobbin) thread comes up in form of a loop.

3. Use the flat side of seam ripper/thread trimmer to open up bobbin thread loop until end is visible.

4. Pull both thread tails straight back under presser foot.

5. Replace see-though bobbin cover by sliding it back into place.

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## MENDING A BROKEN SEAM

1. Set stitch control knob to desired stitch length. For most mending, the "long stitch" setting is acceptable.

   Turn hand wheel toward you to raise needle to highest position.

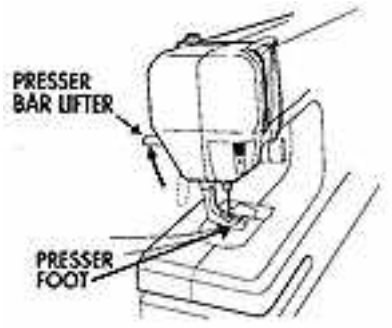
2. Lift presser foot using presser bar lifter. Make sure that both needle (top) thread and bobbin (lower) thread are pulled straight back behind needle about 4".

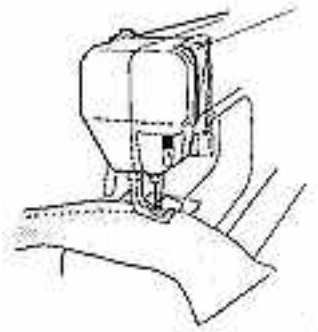
3. Position area to be mended under presser foot. Turn handwheel toward you to lower needle into existing stitches in fabric. Lower presser foot.

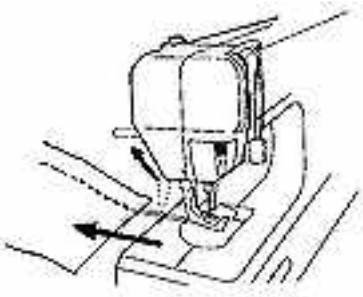
4. Step on foot switch and machine will start to mend the broken seam. Continue until new stitches overlap existing stitches by about an inch and then step off foot switch.

5. Raise presser foot using presser bar lifter and pull fabric straight back. Cut both threads about 4" from edge of fabric.

**NOTE**: If it is difficult to pull thread toward back without noticeably bending the needle, a slight backward and forward movement of the handwheel will make it easier to remove the fabric.





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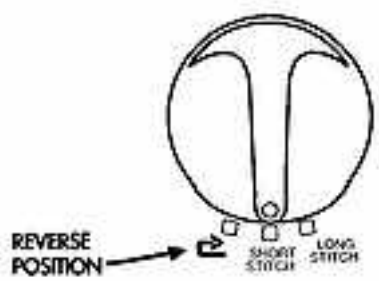
## SECURING A SEAM

There are two methods of securing the threads at the start and end of the seam repair.

**METHOD #1: Backstitching**
Turn stitch control knob to REVERSE (left) position and backstitch 4-5 stitches at start and end of seam repair

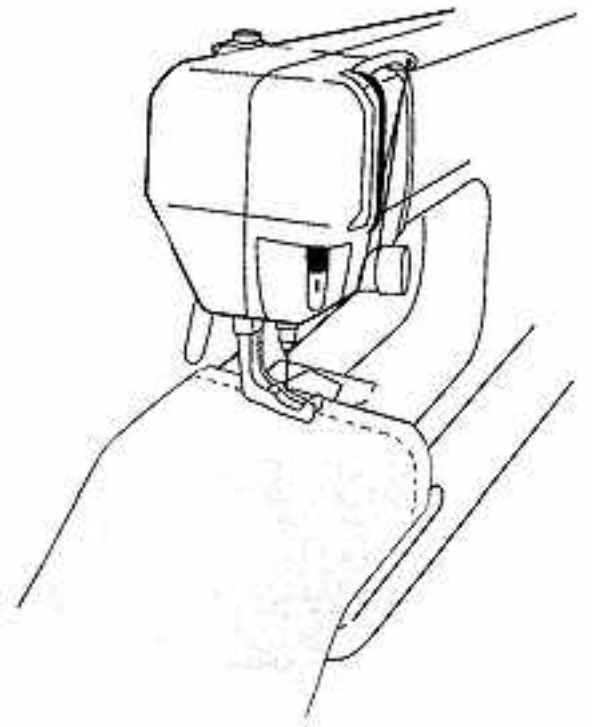


STITCH CONTROL KNOB

**METHOD #2: Tying off**
When seam is completed, use needle threader to pull top thread to underside of fabric. Tie a square knot with the bobbin thread and trim.

## FREE ARM MENDING

A free arm for mending sleeves, Pant legs. etc. To utilize this handy feature just slip the item onto the free arm.



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## ADJUSTING TENSION

All tension adjustment is accomplished using the needle thread tension dial.

The bobbin case tension is pre-set at the factory and cannot be adjusted.

The tension level may be determined by using two different color threads for the needle and bobbin threads, and then analyzing the resulting stitches.

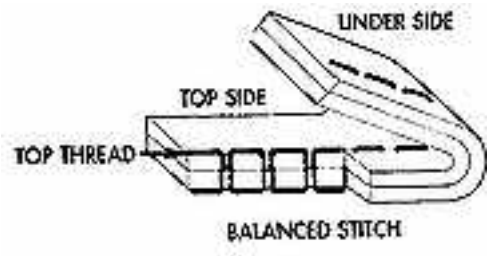
When an even amount of thread is exerted on both threads, a smooth, even stitch known as a **balanced stitch** is produced.

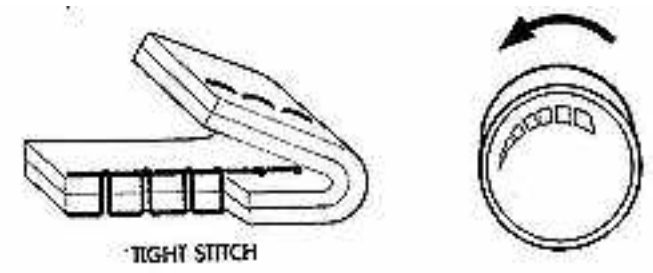
A perfect, well balanced stitch will have the needle and bobbin threads locked between the two layers of fabric with no loops on top or bottom and no puckering.

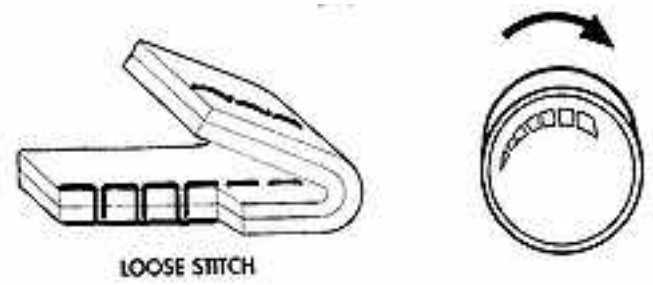
Too much tension will produce a **tight stitch**, which will cause the fabric to pucker. To decrease tension, turn the tension dial Counter-clock-wise

Too little tension will produce a **loose stitch**, which will cause loops in your seam. To increase tension, turn the dial clockwise

**ALWAYS DOUBLE CHECK THREADING BEFORE ATTEMPTING TO ADJUST TENSION!**



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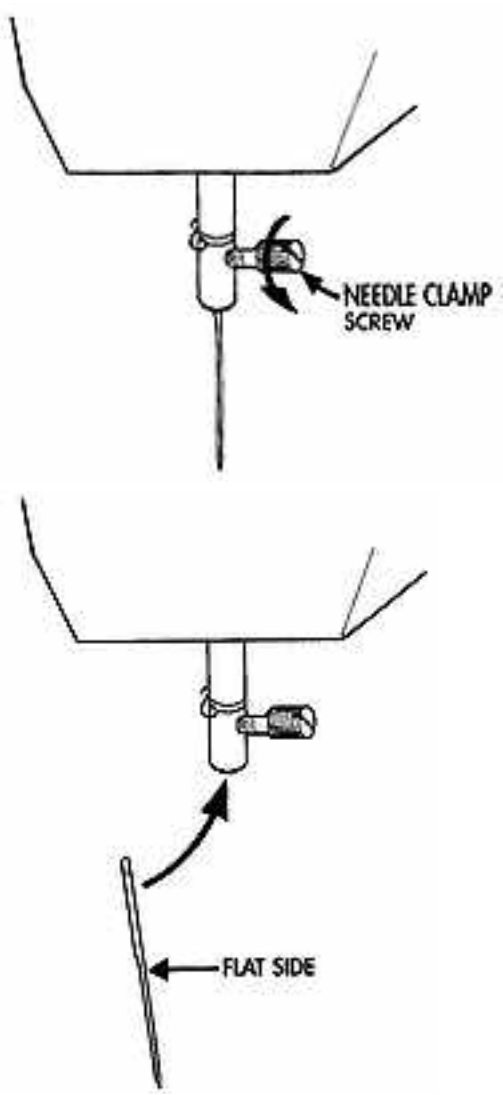
## CHANGING NEEDLES

**IMPORTANT:** For best results, Use Size 90/14 needles.

1. Turn handwheel to raise needle to its highest position. Loosen needle clamp screw just enough to remove needle. A small screwdriver may be helpful.

2. With flat side of needle to the right (same side as needle clamp screw), insert new needle up into clamp as far as it will go.

3. Re-tighten needle clamp.



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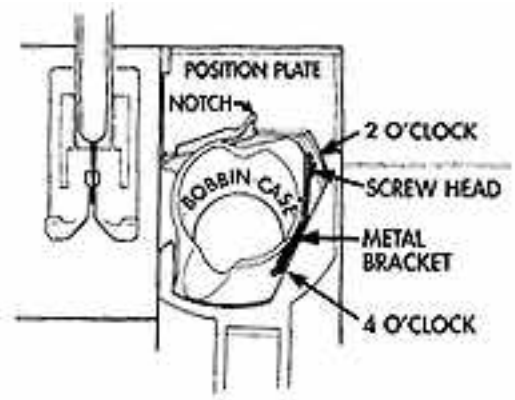
## BOBBIN CASE REPLACEMENT

A special feature of the machine is the anti-thread jamming bobbin case. The bobbin case is held in place by a positioning plate which is designed to flex slightly to allow the bobbin case to move back and forth freely, about 1/16".

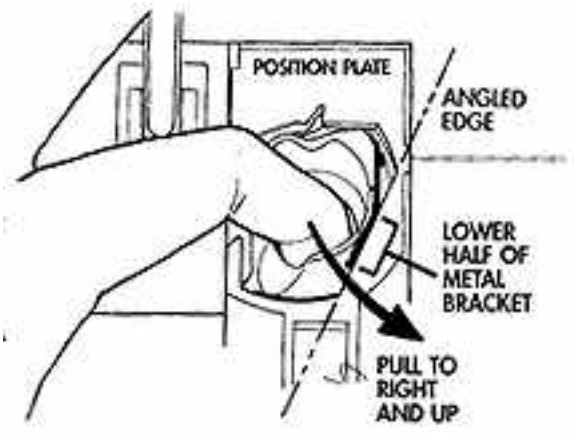
In the event that the bobbin case becomes displaced and does not move freely or pops out completely, follow the three easy steps below. To assist you, the instructions are color coordinated to the illustrations.

**STEP 1:**
Remove bobbin from bobbin case.

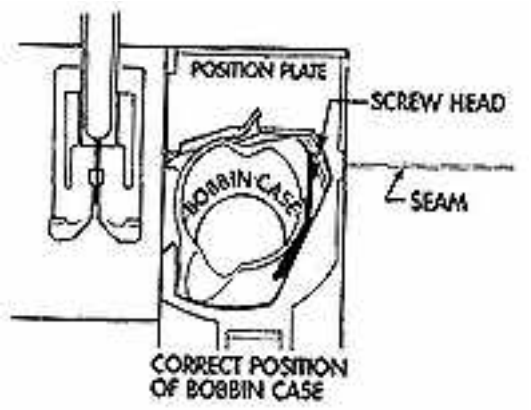
If bobbin case has popped out, put back in position as follows: Place bobbin case under position plate so that screw head is under notch in position plate. Then, slide bobbin case around until metal bracket sits between 2 o'clock and 4 o'clock positions. Proceed to step 2.



**STEP 2:**
Use left index finger to pull bobbin case toward the right and up, until lower half of metal bracket touches angled edge of position plate. Rotate handwheel until bobbin case rests in correct position. Proceed to step 3.




**STEP 3:**
Check bobbin case for' proper positioning. Screw head should line up with seam in plastic casing of machine. From side view, top of bobbin case will be level with (or slightly above) position plate.



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## SPECIAL EDITION:
## BOBBIN CASE REPLACEMENT

The bobbin case actually "floats" on top of the bobbin case housing. The bobbin case is held in place by a position plate, and can only be removed with extreme pressure.

If for some reason the bobbin case is removed or displaced, follow the three steps below to reinsert.

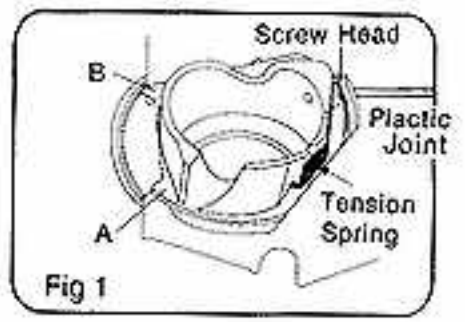

Fig 1

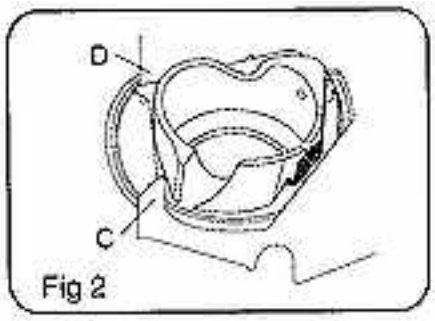

Fig 2

**STEP 1:**
- Remove bobbin from bobbin case.
- Put bobbin case intobobbin case housing
- Have point **A** & **B** of bobbin case sit on top of point C & D of position plate (See FIG 1).
- Make sure the screw head aligns with opposite side of plastic joint
- Do not touch the tension spring.

**STEP 2:**
- Slightly turn the bobbin case counterclockwise (then clockwise) and position point **A** of bobbin case underneath point **C** of position plate Point **B** remains on top of point **D** (See FIG 2).

**STEP 3:**
- Hold left finger inside bobbin case to hold steady then with right finger press down point **E** (See FIG 3)

- Turn the handwheel to make sure bobbin case is free and bobbin case housing can be rotated freely.

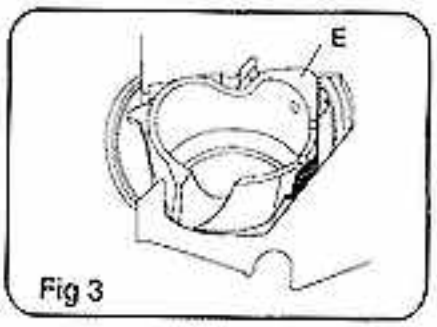

Fig 3

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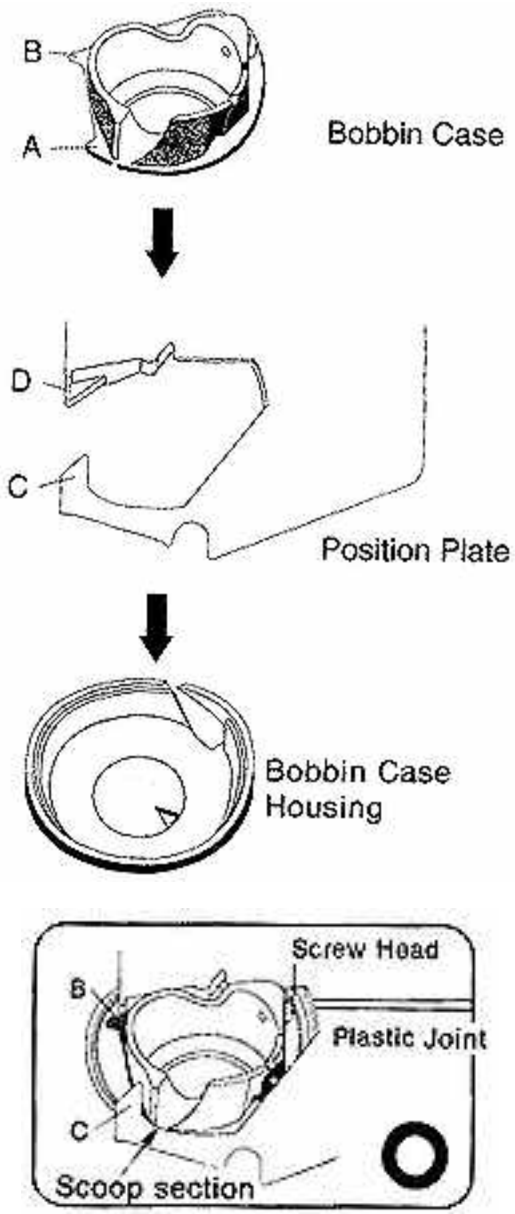
**Drawing A**
Breakdown view of bobbin case,
position plate and bobbin case housing

**Drawing B**
- Correct position of bobbin case after installation.
- The screw head aligns with opposite side of plastic joint.
- The scoop section located to right side of point **C**

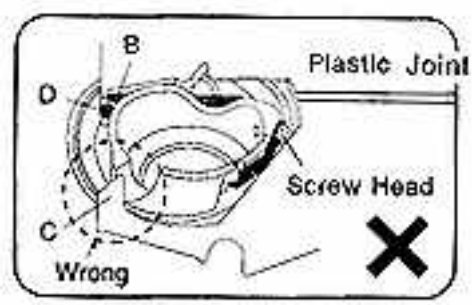


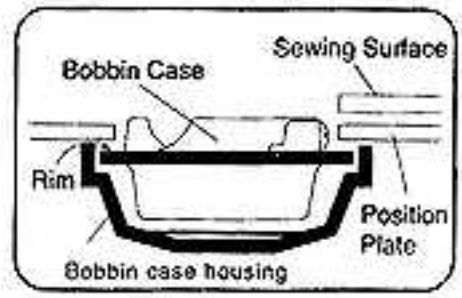
**Drawing C**

- Wrong position of bobbin case. As indicated, the scoop section will be stuck underneath point **C**. This is wrong.

**Drawing D**

- Correct relationship of bobbin case, position plate and bobbin case housing.
- Most important is that the rim of bobbin case supported by the rim of bobbin case housing. The bobbin case is floating on top of the bobbin case housing and the bobbin case housing turns easily under the bobbin case.



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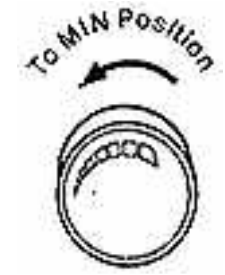
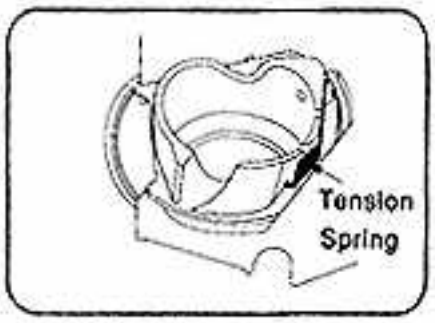
## SPECIAL EDITION FOR ADJUSTING TENSION

- Please note the needle thread tension dial can be rotated 9 full circle turns (From MIN to MAX).
  An easy way to have a balanced stitch is to turn the tension dial to the half-way position (4 or 5 full circle turns from the MIN position).

  If you have difficulties in adjusting tension, follow instructions below:

- Turn the tension dial counterclockwise to MIN position until it stops.
- Turn clockwise & count the number of circles you turn until it reaches 4 or 5 full circle turns (a half-way position)
- Make a test sample to find proper tension before sewing on your fabric.
- Some threads and fabrics require readjusting tension slightly to improve stitch appearance.
- Always double check threading before attempting to adjust thread tension.
- Refer to Page 12, for detail adjusting tension instructions.
- The bobbin case tension is pre-set at the factory and cannot be adjusted. DO NOT TOUCH THE TENSION SPRING.

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## PERFORMANCE CHECKLIST

When sewing difficulties occur, refer back to this manual to make sure that you are correctly following the instructions. If you are still having a problem, the reminders below may help you correct it. Use only correct needles and bobbins (See Page 2).

**Needle does not move**
- Is machine connected to electrical supply?
- Is foot switch connected?
- Is bobbin case displaced? (pg. 14)

**Needle moves, but stitch is not formed**
- Is needle in backwards?
- Is needle defective?
- Is bobbin correctly inserted into bobbin case?
- Is upper thread tension too tight?
- Is bobbin case properly inserted? (pg. 14)
- Is needle fully inserted into needle clamp?
- Are bobbin and needle correctly threaded?

**Needle breaks**
- Is needle straight and sharp?
- Is needle correct size?
- Is needle fully inserted into needle clamp?

**Bobbin winding difficulties**
- Is thread unwinding freely from spool?
- Is bobbin winder engaged?
- Is thread end securely held at start of wind?
- Is thread correctly lead around bobbin winder tension disc?

**Upper thread breaks**
- Is machine properly threaded?
- Is thread freely unwinding from spool?
- Is needle size correct for thread?
- Is bobbin rim free of nicks?

**Lower thread breaks**
- Is bobbin correctly wound?
- Is bobbin correctly inserted into bobbin case?
- Is bobbin case correctly threaded?
- Is bobbin case properly inserted? (pg. 14)

**Skipped stitches**
- Is machine properly threaded?
- Is fabric firmly held down?
- Is needle correct style and size?
- Is needle straight and sharp?

**Fabric does not move properly under presser foot**
- Is presser foot lowered?
- Is stitch length correctly set?